

**REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM**

Laboratory Name: Connecticut Testing Lab's, Inc. Client: Leggette, Brashears & Graham, Inc.
 Project Location: _____ Project Number: Dell 0.01
 Laboratory Sample Id(s): 3246-3261 Sampling Date(s): 3/2/12
 List RCP Method(s) Used: CT ETPH, 1312 CTL Lab #: 0312027

Reactivation ☐ Date Reactivated: _____

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<i>VPH and EPH Methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (<6° C°)? <input checked="" type="checkbox"/> Iced <input type="checkbox"/> No Ice	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Was all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.



Authorized Signature: _____
 Printed Name: Stephen J. Franco

Position: Lab Director PH-0547
 Date: 03/12/12

Name of Laboratory: Connecticut Testing Laboratories, Inc.

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Leggette, Brashears & Graham
6 Executive Drive Suite 109
Farmington, CT 06032

Order#: 0312027

Project: Dell 0.01

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
B-54 (0-2)	3246	SOIL	03/02/2012	03/05/2012
B-54 (2-4)	3247	SOIL	03/02/2012	03/05/2012
B-54 (4-6)	3248	SOIL	03/02/2012	03/05/2012
B-55 (0-2)	3249	SOIL	03/02/2012	03/05/2012
B-55 (2-4)	3250	SOIL	03/02/2012	03/05/2012
B-55 (4-6)	3251	SOIL	03/02/2012	03/05/2012
B-56 (0-2)	3252	SOIL	03/02/2012	03/05/2012
B-56 (2-4)	3253	SOIL	03/02/2012	03/05/2012
B-56 (4-6)	3254	SOIL	03/02/2012	03/05/2012
B-57 (3.5-4.5)	3255	SOIL	03/02/2012	03/05/2012
B-57 (9-10)	3256	SOIL	03/02/2012	03/05/2012
B-57 (16.5-17.5)	3257	SOIL	03/02/2012	03/05/2012
B-116 (1-2)	3258	SOIL	03/02/2012	03/05/2012
B-117 (0-1)	3259	SOIL	03/02/2012	03/05/2012
B-117 (1-2)	3260	SOIL	03/02/2012	03/05/2012
B-118 (0-1)	3261	SOIL	03/02/2012	03/05/2012
B-118 (1-2)	3262	SOIL	03/02/2012	03/05/2012

No analytical was requested for CTL sample no. 3262.

The ETPH discrimination check meets RCP criteria.

CT ETPH anomalies are noted in the RCP DQA summary table attached to this report.

The total solids results for CTL sample no. 3259 was 65.4%. As a result of the lower solids content, larger sample aliquots were taken for analysis to compensate.

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Leggette, Brashears & Graham
6 Executive Drive Suite 109
Farmington, CT 06032

Order#: 0312027

Project: Dell 0.01

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

The enclosed results of analyses are representative of the samples as received by the laboratory. Connecticut Testing Laboratories, Inc. makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: _____

Connecticut Testing Laboratories, Inc.

Date: _____

3/12/12

Date Samples Received: 03/05/2012

Client Name: Leggette, Brashears & Graham
Report Date: 03/12/2012
Method #: CT ETPH/3545

CTL Lab No.: 0312027
PO No: Dell 0.01
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	3246	3247	3248	3249
Field ID:	B-54 (0-2)	B-54 (2-4)	B-54 (4-6)	B-55 (0-2)
Date Analyzed:	03/12/2012	03/12/2012	03/12/2012	03/12/2012
Date Extracted:	03/08/2012	03/08/2012	03/08/2012	03/08/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	ND	ND	841
1-Chloro-Octadecene	%	---	75	92	95	128

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 03/05/2012

Client Name: Leggette, Brashears & Graham
Report Date: 03/12/2012
Method #: CT ETPH/3545

CTL Lab No.: 0312027
PO No: Dell 0.01
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	3250	3251	3252	3253
Field ID:	B-55 (2-4)	B-55 (4-6)	B-56 (0-2)	B-56 (2-4)
Date Analyzed:	03/12/2012	03/12/2012	03/12/2012	03/12/2012
Date Extracted:	03/08/2012	03/08/2012	03/08/2012	03/08/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	6,717	14,846	62	ND
1-Chloro-Octadecene	%	---	215	274	102	95

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Client Name: Leggette, Brashears & Graham	CTL Lab No.: 0312027
Report Date: 03/12/2012	PO No: Dell 0.01
Method #: CT ETPH/3545	Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	3254	3255	3256	3257
Field ID:	B-56 (4-6)	B-57 (3.5-4.5)	B-57 (9-10)	B-57 (16.5-17.5)
Date Analyzed:	03/12/2012	03/12/2012	03/12/2012	03/12/2012
Date Extracted:	03/08/2012	03/08/2012	03/08/2012	03/08/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	275	ND	ND	ND
1-Chloro-Octadecene	%	---	99	93	109	94

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547 / MA-CT035

Date Samples Received: 03/05/2012

Client Name: Leggette, Brashears & Graham
Report Date: 03/12/2012
Method #: CT ETPH/3545

CTL Lab No.: 0312027
PO No: Dell 0.01
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL
CTL Sample No.:	3258	3260	3261
Field ID:	B-116 (1-2)	B-117 (1-2)	B-118 (0-1)
Date Analyzed:	03/12/2012	03/12/2012	03/12/2012
Date Extracted:	03/08/2012	03/08/2012	03/08/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	166	128	70	
1-Chloro-Octadecene	%	---	116	112	85	

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 03/05/2012

Client Name: Leggette, Brashears & Graham

CTL Lab No.: 0312027

Report Date: 03/12/2012

PO No: Dell 0.01

Analyst: BM

RESULTS OF ANALYSIS

CT-ETPH-SPLP RCP

Matrix Type:

SOIL

CTL Sample No.:

3259

Field ID:

B-117 (0-1)

Parameters	Date Tested	RL					Method #
CT ETPH-mg/L	03/06/2012	0.10	ND				CTETPH/1312

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 03/05/2012

Client Name: Leggette, Brashears & Graham
Report Date: 03/12/2012
Method #: CTETPH/1312

CTL Lab No.: 0312027
PO No: Dell 0.01
Analyst: BM

RESULTS OF ANALYSIS

CT-ETPH-SPLP RCP

Matrix Type: SOIL
CTL Sample No.: 3259
Field ID: B-117 (0-1)
Date Analyzed: 03/06/2012
Date Extracted: 03/05/2012

Parameters	Units	RL				
1-Chloro-Octadecene	%	----	98			

RL=Reporting Level ND = None Detected

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(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

CTETPH-RCP

Order#: 0312027

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0032297-02			84.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0032297-03		560	631	112.7%	
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000032-46	ND	280	239	85.4%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000032-46	ND	280	278	99.3%	15.1%

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	1-Chloro-Octadecene	108%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL	1-Chloro-Octadecene	112%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MS	1-Chloro-Octadecene	78%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MSD	1-Chloro-Octadecene	91%	50	150

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

CT-ETPH-SPLP RCP

Order#: 0312027

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/L	0032230-02			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/L	0032230-03		1.4	1.3	92.9%	

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	1-Chloro-Octadecene	107%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL	1-Chloro-Octadecene	134%	50	150

RCP DQA SUMMARY TABLE

CTL Lab # 0312027
Client: LBG
Project: Dell 0.01

CTL		QC		Calibr.		Notes	
Sample #	Analyte	Type	Date	Criteria			
3246 - 3258, 3260 - 3261	CT ETPH	ICAL	3/9/12	<30% RSD			No Anomalies
3246 - 3258, 3260 - 3261	CT ETPH	ICV	3/9/12	See Method			No Anomalies
3246 - 3258, 3260 - 3261	CT ETPH	DChk	3/9/12	+/- 20% D			Meets Method Requirements

	QC		Spike		Criteria	RPD		RPD Bias
	Type	Result	Value	%D		%R	Bias	
3246 - 3258, 3260 - 3261	CT ETPH	CCAL			+/-30%D			No Anomalies
3246 - 3258, 3260 - 3261	CT ETPH	DChk			Pass			Meets Method Requirements
3246 - 3258, 3260 - 3261	CT ETPH	MB	ND		Targets <RL			No Anomalies
3246 - 3258, 3260 - 3261	CT ETPH	LCS			60-120%R			No Anomalies
3250	CT ETPH	SR	215	100	50-150%R	H		Matrix Interference
3251	CT ETPH	SR	274	100	50-150%R	H		Matrix Interference
3246	CT ETPH	MS			50-150%R			No Anomalies
3246	CT ETPH	MSD			50-150%R RPD<30			No Anomalies

L=Low H= High NDR=Non Directic	MB= Method Blank	RSD= Relative Standard Deviation
ICAL = Initial Calibration	LCS= Laboratory Control Sample	%D=% Drift
ICV= Initial Calibration Verification	SR= Surrogate Recovery	%R= % Recovery
DChk= Discrimination Check	MS= Matrix Spike	RPD= Relative Percent Difference
CCAL=Continuing Calibration	MSD= Matrix Spike Duplicate	

CT ETPH-SPLP EPA 1312

CTL Lab # 0312027

Client: LBG

Project: DELL 0.01

RCP DQA SUMMARY TABLE

CTL Sample #	Analyte	QC Type	Calibr. Date	Criteria	Notes
3259	CT ETPH	ICAL	3/1/12	<30% RSD	No Anomalies
3259	CT ETPH	ICV	3/1/12	See Method	No Anomalies
3259	CT ETPH	DChk	3/1/12	+/- 20% D	Meets Method Requirements

QC Type	Result	Spike Value	%D	%R	Criteria	Bias	RPD	Bias	RPD
3259	CT ETPH	CCAL			+/-30%D				No Anomalies
3259	CT ETPH	DChk			Pass				Meets Method Requirements
3259	CT ETPH	MB	ND		Targets <RL				No Anomalies
3259	CT ETPH	LCS			60-120%R				No Anomalies
3259	CT ETPH	SR			50-150%R				No Anomalies
3259	CT ETPH	MS			50-150%R				No Anomalies
3259	CT ETPH	MSD			50-150%R RPD<30				No Anomalies

L=Low H= High NDR=Non Directional

ICAL = Initial Calibration

ICV= Initial Calibration Verification

DChk= Discrimination Check

CCAL=Continuing Calibration

MB= Method Blank

LCS= Laboratory Control Sample

SR= Surrogate Recovery

MS= Matrix Spike

MSD= Matrix Spike Duplicate

RSD= Relative Standard Deviation

%D=% Drift

%R= % Recovery

RPD= Relative Percent Difference